

Title (en)

ELECTROLUMINESCENCE DISPLAY SUBSTRATE AND PREPARATION METHOD THEREFOR, DISPLAY PANEL, AND DISPLAY DEVICE

Title (de)

ELEKTROLUMINESZENZANZEIGESUBSTRAT UND HERSTELLUNGSVERFAHREN DAFÜR, ANZEIGETAFEL UND ANZEIGEVORRICHTUNG

Title (fr)

SUBSTRAT D'AFFICHAGE ÉLECTROLUMINESCENT ET SON PROCÉDÉ DE PRÉPARATION, PANNEAU D'AFFICHAGE ET DISPOSITIF D'AFFICHAGE

Publication

**EP 3694010 A4 20210825 (EN)**

Application

**EP 18811432 A 20180522**

Priority

- CN 201710705346 A 20170817
- CN 2018087846 W 20180522

Abstract (en)

[origin: EP3694010A1] An electroluminescent display substrate and a manufacturing method thereof, a display panel and a display apparatus are disclosed. The electroluminescent display substrate (10) includes: a base substrate (100) including a display area (101) and a peripheral area (102) surrounding the display area (101), wherein at least one OLED device (20) is in the display area (101); a pixel defining layer (204) in the display area (101) and the peripheral area (102); at least one groove (300) in the pixel defining layer (204) in the peripheral area (102); wherein the at least one OLED device (20) has a first electrode (201), the first electrode (201) is on a side of the pixel defining layer (204) away from the base substrate (100) and extends to cover the groove (300).

IPC 8 full level

**H01L 51/52** (2006.01); **H01L 27/32** (2006.01)

CPC (source: CN EP US)

**H10K 50/822** (2023.02 - US); **H10K 50/8426** (2023.02 - US); **H10K 50/865** (2023.02 - US); **H10K 59/122** (2023.02 - CN EP US);  
**H10K 59/124** (2023.02 - EP US); **H10K 59/131** (2023.02 - CN EP US); **H10K 59/38** (2023.02 - US); **H10K 59/80522** (2023.02 - CN EP);  
**H10K 59/8722** (2023.02 - CN EP); **H10K 59/8723** (2023.02 - CN EP); **H10K 59/873** (2023.02 - CN EP); **H10K 71/00** (2023.02 - US);  
**H10K 59/1201** (2023.02 - US); **H10K 59/35** (2023.02 - EP); **H10K 59/38** (2023.02 - EP); **H10K 59/8792** (2023.02 - CN EP)

Citation (search report)

- [XI] US 2017194599 A1 20170706 - FURUIE MASAMITSU [JP]
- [X] WO 2017127563 A1 20170727 - GROTURBEL RES LLC [US]
- See references of WO 2019033811A1

Cited by

EP4207988A3; EP4207987A1; EP3680946B1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 3694010 A1 20200812; EP 3694010 A4 20210825; EP 3694010 B1 20240508;** CN 109411619 A 20190301; CN 109411619 B 20200526;  
JP 2020531879 A 20201105; JP 7148411 B2 20221005; US 10978524 B2 20210413; US 2020258958 A1 20200813;  
WO 2019033811 A1 20190221

DOCDB simple family (application)

**EP 18811432 A 20180522;** CN 201710705346 A 20170817; CN 2018087846 W 20180522; JP 2018565066 A 20180522;  
US 201816308537 A 20180522